

*HELFGOTT & KARAS CONFIDENTIAL*CLAIMS

1. A method of maintaining synchronization between a group comprising multiple communications devices, when information associated with the group is modified by one of said multiple devices, said method comprising:

5 receiving a request verb from a first device of said grouped multiple communications devices, said request verb indicating a required event to a remotely located server;
said server returning an acknowledging response verb to said first device;
said server sending a modifying verb indicating information about said required event to each remaining device in said group, and
10 when a remaining device receives said server originated modifying verb, the event is considered complete and the device performs said required event.

2. A method of maintaining synchronization between a group of multiple communications devices, as per claim 1, where said server additionally returns said modifying verb to said first
15 device if it is capable of receiving server originated events.

3. A method of maintaining synchronization between a group of multiple communications devices, as per claim 1, where said required event comprises modification of a contact list to include any of: adding a contact, editing a contact, or deleting a contact.

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4. A method of maintaining synchronization between a group of multiple communications devices, as per claim 1, where said required event comprises modification of a message status modified to include any of: reading a new message or deleting a message.

5 5. A method of maintaining synchronization between a group of multiple communications devices, as per claim 1, where said required event comprises modification of a routing policy modified to include any of: adding a policy, deleting a policy, or changing a current active policy.

6. A method of maintaining synchronization between a group of multiple communications devices, as per claim 1, wherein said synchronization method further comprises, for one or more devices in said group, detection and repair of an out-of-sync scenario between said device and said server.

7. A method of maintaining synchronization between a group of multiple communications devices, as per claim 6, wherein said out-of-sync scenario is created by any of: packet loss, loss of network connection during operations, or corruption of data.

8. A method of maintaining synchronization between a group of multiple communications devices, as per claim 6, wherein said detection and repair of an out-of-sync scenario comprises periodic receiving of verbs comprising a device status identifier by said server and returning of a modifying verb upon detection of an out-of-sync status.

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9. A method of maintaining synchronization between a group of multiple communications devices, as per claim 8, wherein periodic verbs are received from said one or more devices at alterable time periods

10. A method of maintaining synchronization between a group of multiple communications devices, as per claim 6, wherein said detection and repair of an out-of-sync scenario comprises, at device login:

receiving a device generated verb request;

comparing server master status identifiers to said device status identifier to determine if a modification is required;

if required, returning a modifying verb.

11. A method of maintaining synchronization between a group of multiple communications devices, as per claim 10, wherein said online verb comprises:

a hash of an address book of a device subscriber;

an ID of a last message the device received, and

binary data passed to said device during a policy modification required event.

12. A method of synchronization one or more communication devices with a remote server system, said remote server system comprising one or more databases and one or more servers located locally or remotely, said method comprising:

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for each of said communication devices:

detecting and repairing of an out-of-sync scenario between said device and said server system, said detecting step comprising periodically receiving verbs at said server system comprising a device status identifier and returning a modifying verb upon detection of an out-of-sync status;

for a group of said communication devices sharing information in said one or more databases:

receiving a request verb from a first device of said grouped communications devices, said request verb indicating a required event to said remotely located server system;

said server system returning an acknowledging response verb to said first device;

said server system sending a modifying verb indicating information about said required event to each remaining device in said group, and

when a remaining device receives said server originated modifying verb, the event is considered complete and the device performs said required event.

13. A method of synchronization one or more communication devices with a remote server system, as per claim 12, wherein said out-of-sync scenario is created by any of: packet loss, loss of network connection during operations, or corruption of data.

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14. A method of synchronization one or more communication devices with a remote server system, as per claim 12, wherein said periodic verbs are received from said one or more devices at alterable time periods.

5 15. A method of synchronization one or more communication devices with a remote server system, as per claim 12, wherein said detection and repair of an out-of-sync scenario comprises, at device login:

receiving an online verb request;

comparing server system master status identifiers to said device status identifier to

10 determine if a modification is required;

if required, returning a modifying verb.

16. A method of synchronization one or more communication devices with a remote server system, as per claim 15, wherein said online verb comprises:

15 a hash of an address book of a device subscriber;

an ID of a last message the device received, and

17. A method of synchronization one or more communication devices with a remote server system, as per claim 12, where said server system additionally returns said modifying verb to said first device if it is capable of receiving server originated events.

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18. A method of synchronization one or more communication devices with a remote server system, as per claim 12, where said required event comprises modification of a contact list to include any of: adding a contact, editing a contact, or deleting a contact.

5 19. A method of synchronization one or more communication devices with a remote server system, as per claim 12, where said required event comprises modification of a message status modified to include any of: reading a new message or deleting a message.

10 20. A method of synchronization one or more communication devices with a remote server system, as per claim 12, where said required event comprises modification of a routing policy modified to include any of: adding a policy, deleting a policy, or changing a current active policy.

15 21. A remote server system for synchronization with one or more communication devices, said remote server system comprising one or more elements located together or distributed across a network, said system comprising:

one or more front end processing elements;

one or more back end processing elements operatively connected to said one or more front end processing elements;

one or more databases operatively connected to said one or more back end processing elements;

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interface means operative with said front end processing elements to receive and transmit event verbs to one or more communications devices;
detecting and repairing software operative with said front and back end processing elements, said detecting and repairing software, for each of said communications devices:

5 detecting and repairing an out-of-sync scenario between said device and said remote server system, said detecting comprising periodically receiving said verbs at said server system comprising a device status identifier and returning a modifying verb upon detection of an out-of-sync status;
synchronization software, said synchronization software operative with said front and
10 back end processing elements, for grouped communication devices sharing information in said one or more databases:

receiving a request verb from a first device of said grouped communications devices, said request verb indicating a required event to said remotely located server system;

15 said server system returning an acknowledging response verb to said first device;
said server system sending a modifying verb indicating information about said required event to each remaining device in said group, and
when a remaining device receives said server originated modifying verb, the event is considered complete and the device performs said required event.

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22. A remote server system for synchronization with one or more communication devices, as per claim 21, where said one or more databases store one or more of specific device: address book(s), messages and policies.
23. A remote server system for synchronization with one or more communication devices, as per claim 21, where said status identifier comprises at least one or a combination of: address book status identifiers, message status identifiers and policy status identifiers.
24. A remote server system for synchronization with one or more communication devices, as per claim 21, where said address book status identifiers are equal to the hash of a string containing all contacts ID and their aliases, said message status identifier comprises a MessageID of the last new message sent to the device and the policy status identifier is a cookie sent by the server system to the device and comprises customized information.